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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/476,443	12/30/1999	RAJEEV K. NALAWADI	042390.P6349	7862
·	7590 06/16/2003	•		
BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP			EXAMINER	
	400 WILSHIRE BOULEVARD SEVENTH FLOOR DS ANGELES, CA 90025		VO, T	ІМ Т
			ART UNIT	PAPER NUMBÈR
			2189	12.
			DATE MAILED: 06/16/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.



			1			
	Application No.	Applicant(s)	2			
	09/476,443	NALAWADI, RAJEEV K.	_			
Office Action Summary	Examiner	Art Unit				
	Tim T. Vo	2189				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet	with the correspondenc address				
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by st - Any reply received by the Office later than three months after the mearmed patent term adjustment. See 37 CFR 1.704(b). Status	N. R 1.136(a). In no event, however, may reply within the statutory minimum of the code will apply and will expire SIX (6) Me atute, cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communicat ABANDONED (35 U.S.C. § 133).	ion.			
1) Responsive to communication(s) filed on	<u>19 May 2003</u> .					
· _ ·	This action is non-final.					
3) Since this application is in condition for all closed in accordance with the practice unc			s is			
Disposition of Claims	to the constitution					
4)⊠ Claim(s) <u>1-9,11-13 and 15</u> is/are pending i						
4a) Of the above claim(s) is/are with	drawn from consideration.					
<u> </u>	Claim(s) is/are allowed.					
	∑ Claim(s) 1-9,11-13,15 is/are rejected.					
7) Claim(s) is/are objected to.	nd/or alastian requirement					
8) Claim(s) are subject to restriction ar Application Papers	id/or election requirement.					
9) The specification is objected to by the Exam	niner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ a		the Examiner.				
Applicant may not request that any objection t						
11)☐ The proposed drawing correction filed on _	is: a) ☐ approved b) ☐	disapproved by the Examiner.				
If approved, corrected drawings are required in	n reply to this Office action.					
12)☐ The oath or declaration is objected to by the	e Examiner.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for for	eign priority under 35 U.S.C	c. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority docum	nents have been received.					
2. Certified copies of the priority docum	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the application from the Internationa* See the attached detailed Office action for a	l Bureau (PCT Rule 17.2(a)).				
14)☐ Acknowledgment is made of a claim for dom	estic priority under 35 U.S.	C. § 119(e) (to a provisional applica	ation).			
 a) ☐ The translation of the foreign language 15)☐ Acknowledgment is made of a claim for dom 	· ·					
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No.) 5) Notice	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)	- '			
S. Patent and Trademark Office			_			

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DETAILED ACTION

1. Claims 1-9, 11-13 and 15 are presented for examination.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1,5 and 15 rejected under 35 U.S.C. 102(b) as being anticipated by Young U.S Patent No. 5,619,706. Young discloses a method and system that includes the use of two different and separate interrupt controllers which receive two different interrupt requests that transfer initializing data and, when needed, re-routes an interrupt request from one controller to other interrupt controller in order for the second interrupt controller to service the first type of interrupt (column 7, claim 1). The system also includes a memory subsystem that stores information and instructions for the processors to manage interrupts in the system (column 4, line 45).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 2-4 and 6-9, 11-14 are rejected under 35 U.S.C. 103(a) as being 3. unpatentable over Young U.S Patent No. 5,619,706 as applied to claims 1,5,15 above, in view of Tavallaei et al. U.S. Patent No. 5,987,538. Referring to claims 2, 3, 6, 7, 11 and 12 Young discloses a method and system that includes the use of two different and separate interrupt controllers which receive two different interrupt requests that transfer initializing data and, when needed, re-routes an interrupt request from one controller to other interrupt controller in order for the second interrupt controller to service the first type of interrupt but does not disclose configuring a system management interrupt (SMI) to recognize the initializing data of a first interrupt type. However, Tavallaei et al. teaches the use of programmable data entries, which provide information necessary to format an interrupt message or request (column 7, line 56). The entries are made up of vectors such as a vector field, a delivery mode field, destination field and a field for other purposes or otherwise reserved (column 8, 4th paragraph). Tavallaei also teaches the generation of interrupt messages such as a SMI (column 4, line 65). Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to modify Young's invention to include such programmable data entries in the interrupt requests transferred to the interrupt controllers in order to include initializing data in the fields of the entry such as configuration instructions for the controllers and for the generation of SMIs.

Referring to claims 4, 8 and 13, Young further teaches a method and system that includes a first interrupt controller (circuit) which includes a programmable interrupt controller (PIC) and an advanced interrupt controller (APIC)(column 8, claim 8). It is well

known that an 82C59 controller is a programmable interrupt controller and can be used in such a system.

Referring to claim 9, Young further discloses a system comprising a plurality of processors, a memory subsystem and a bridge element (column 4, line 36). Young also states that the system may employ some or all of the components mentioned and also include different components than those illustrated (column 5,column1). Tavallaei et al. teaches a system where a peripheral component, such as a memory device, is coupled to a second-type interrupt controller (column 9, line 61). Tavallaei also teaches coupling a first-type interrupt controller to a second-type interrupt controller (column 9, line 58). Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to modify Young's invention to include such a peripheral component, such as a memory device, coupled to the second-type interrupt controller in order to store instructions to service first-type interrupt request and also to couple a first-type interrupt controller to a second-type interrupt controller in order to communicate interrupt messages between both controllers.

Response to Arguments

- 4. Applicant's arguments filed 12/02/02 have been fully considered but they are not persuasive.
- 5. Amended claims 1-3, 5-7, 9 and 11-12 do not change scope of the claims. Therefore, the same ground of rejection applies as previous office action.

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6. Applicant acknowledges that Young teaches a method and system that services interrupt requests using two different and separate interrupt controllers which receive two different interrupt requests that transfer initializing data and, when needed, reroutes an interrupt request from a first interrupt controller to a second interrupt controller in order for the second interrupt controller to service the first type of interrupt request. Servicing the interrupts is the equivalent function of rerouting the initialization information/data since the interrupt requests of Young are initialization interrupts

7. The applicant argued that the amended claims as amended clarify that "the initializing data being sent and rerouted is initializing data for an interrupt controller". This feature is not found in the amended claims. The amended claims do not disclose the initializing data initializing for an interrupt controller. Therefore, this argument is moot.

requests. This teaching is equivalent to the amended claims 1, 5 and 15.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tim T. Vo whose telephone number is 703-308-5862. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on 703-305-4815. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-7239 for regular communications and 703-746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-2100.

Tim T. Vo Examiner Art Unit 2189

T.V June 14, 2003